Wenliang Zhong

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EDUCATION

University of Texas at Arlington — Arlington, TX
Ph.D in Computer Science supervised by Dr. Junzhou Huang; current GPA: 4.0/4.0 — Aug 2021 - present

Jilin University — Jilin, China
B.S. in Computer Science and Technology; GPA: 3.6/4.0 (87.9/100) — Aug 2017 - Jun 2021

RESEARCH INTERESTS

Instruction-Aware Models; Computer Vision; Multimodal Learning; (Multimodal) LLMs; Deep Graph Learning

RECENT PUBLICATION (MORE IN GOOGLE SCHOLAR)

- **Wenliang Zhong**, Haiqing Li, Thao M. Dang, Feng Jiang, Hehuan Ma, Yuzhi Guo, Jean Gao, Junzhou Huang, "*Learning from Guidelines: Structured Prompt Optimization for Expert Annotation Tasks*", AAAI 2026

- **Wenliang Zhong**, Rob Barton, Weizhi An, Feng Jiang, Hehuan Ma, Yuzhi Guo, Abhishek Dan, Shioulin Sam, Karim Bouyarmane, Junzhou Huang, "*Zero-Shot Composed Image Retrieval via Dual-Stream Instruction-Aware Distillation*", ICCV 2025

- **Wenliang Zhong**, Weizhi An, Feng Jiang, Hehuan Ma, Yuzhi Guo, and Junzhou Huang, "*Compositional Image Retrieval via Instruction-Aware Contrastive Learning*", Preprint

- **Wenliang Zhong**, Wenyi Wu, Qi Li, Rob Barton, Boxin Du, Karim Bouyarmane, Shioulin Sam, Ismail Tutar, and Junzhou Huang, "*Enhancing Multimodal Large Language Models with Multi-instance Visual Prompt Generator for Visual Representation Enrichment*", SIGIR workshop on Multimodal Representation and Retrieval 2024

- Weizhi An, **Wenliang Zhong**, Feng Jiang, Hehuan Ma and Junzhou Huang, "*Causal Subgraphs and Information Bottlenecks: Redefining OOD Robustness in Graph Neural Networks*", ECCV 2024

- Qifeng Zhou, **Wenliang Zhong**, Yuzhi Guo, Michael Xiao, Hehuan Ma, and Junzhou Huang, "*PathM3: A Multimodal Multi-Task Multiple Instance Learning Framework for Whole Slide Image Classification and Captioning*", MICCAI 2024

- Wenyi Wu, Qi Li, **Wenliang Zhong**, Junzhou Huang, "*MIVC: Multiple instance visual component for visual-language models*", WACV 2024.

- Yucheng Shi*, Hehuan Ma*, **Wenliang Zhong***, Qiaoyu Tan, Gengchen Mai, Xiang Li, Tianming Liu, Junzhou Huang, "*Chatgraph: Interpretable text classification by converting chatgpt knowledge to graphs*", ICDMW 2023

RECENT INDUSTRY EXPERIENCE

Applied Scientist Intern in Amazon — May - Aug 2025
- **Topic**: Guideline-Driven Clustering LLM Agent
- **Research Project**: **Developed** an agentic system for e-commerce clustering based on *instruction-aware embedding models* and *multomodal LLMs*; **Designed** a novel MST-based algorithm that efficiently leveraging LLMs in clustering; **Extended** the framework to general image clustering tasks.
- **Publications**: Publish one paper for the internal AMLC and one paper in submission for an external conference.

Applied Scientist Intern in Amazon — May - Aug 2024
- **Topic**: Instruction-Aware Embedding Models
- **Research Project**: **Deveoplped** an instrucint-aware embedding model based on multimodal LLMs for e-commerce items that unifying multiple modalities and following instructions. **Designed** a novel hard negative mining strategy for contrastive learning. **Extended** instruction-aware embedding models to public zero-shot composed image retrieval tasks by a novel distillation framework.
- **Publications** Publish one *oral* paper for the internal AMLC and one paper in ICCV 2025.

HONORS AND AWARDS

- Outstanding undergraduate thesis in Jilin University ($\sim 5\%$), 2021